Present neatly. Justify for full credit. ~~No Calculators~~.

Name _____   Score _____   15 minutes

1)

Using a trapezoidal sum with six subintervals, estimate the area that the graph of $f(x) = e^x$ forms with the horizontal axis and the lines $x = 1$ and $x = 4$. Sketch the region and show work leading to your answer.

2) [Short Essay]

We have recently introduced four methods of approximates areas under the curve. In a few complete sentences, compare the relative accuracy of each approximation method. Are there certain graph criteria for which one method performs best?